Windows XP SP2

Line of Business Application Compatibility

November 3, 2003

Agenda

Kick-off	Elliot Paull
LOB App Compatibility Program	Stephanie Martin
Microsoft Java Virtual Machine (MSJVM)	Olivier D'Hose
ActiveX	Andy Dunn
Internet Connection Firewall+ (ICF+)	Michael Surkan
Windows Management Instrumentation (WMI)	Jack Creasey
Internet Explorer	Kurt Schmucker

LOB App Compatibility Program

- **Targeted applications:**
  - require a client install
  - web based
  - use ActiveX controls
  - others

Shared Goals	Beta Escrow	Beta	RC Escrow	RC	RTM Escrow
Ship Criteria Apps	Top 30		Top 30		Top 30
Broad Coverage Apps		150		150	

- **Team Site:**
  - http://sts/tip/windows/xpsp2lob
- **Join the team distribution list:**
  - EAP Windows XP SP2 (eapxpsp2)
- **Contact Stephanie Martin (*stephn*)**

Key Dates

LOB Test Schedule	Beta Escrow	Beta	RC Escrow	RC	RTM Escrow
Top 30 LOB Apps	Nov 7 - Nov 14		Jan/Feb 2004		TBD
150+ LOB Apps		Nov 18 - Dec 5		Feb/Mar 2004	

Note: The dates provided are dependant on the Windows product group and are for OTG planning purposes only.

- **Beta Escrow of Windows XP SP2:**
  - ICF+ OTG Pilot: Top 30 LOB applications; 150 clients in OTG
  - WMI: All clients impacted
  - IE changes
- **Post Beta 1 of Windows XP SP2:**
  - ActiveX
- **June 2004:**
  - MSJVM

Key Changes

Microsoft Java Virtual Machine (MSJVM)	Olivier D'Hose
ActiveX	Andy Dunn
Internet Connection Firewall+	Michael Surkan
Windows Management Instrumentation	Jack Creasey
Internet Explorer	Kurt Schmucker

ActiveX – Andy Dunn

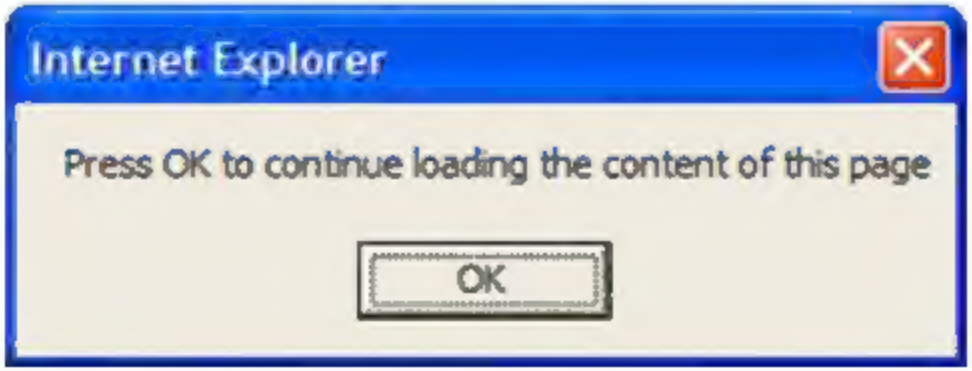
Why?

- Microsoft was ruled against in the Eolas Patent Ruling http://www.microsoft.com/presspass/press/2003/oct03/10-06EOLASpr.asp
- Final judgment not yet entered
- Microsoft intends to appeal
- However, Microsoft has decided to make changes to IE to minimize or eliminate the impact during the appeal

ActiveX – Andy Dunn

What does this mean?

- If
  - you do nothing AND
  - your application uses ActiveX or Scriptlets AND
  - the ActiveX or Scriptlets access an external resource
- THEN



ActiveX – Andy Dunn

How to test this?

- http://msdn.microsoft.com/ieupdate/
- Install the pre release version
  - Side by side install – lives in its own directory
  - Runs alongside current release version
- Run through your app. If you don't see the dialog you are fine.

ActiveX – Andy Dunn

How to fix this (Option 1)

- http://msdn.microsoft.com/ieupdate/activexchanges.asp

- No <PARAM> means no prompt
- If you have <PARAM>s which don't refer to external data then tell IE

```
<OBJECT NOEXTERNALDATA="true" CLASSID="CLSID:6BF52A52-394A-__
```

- If you have <PARAM>s that do refer to external data you can BASE64 encode them

```
<OBJECT ID="myCtrl" WIDTH=50 HEIGHT=50 CLASSID="CLSID:__" DATA='DATA:application/x-
oleobject;BASE64,j43aWGqdGxCvwEIQ'>
```

ActiveX – Andy Dunn

How to fix this (Option 2)

- http://msdn.microsoft.com/ieupdate/activexchanges.asp

- Create the object tag in script in a separate file
- e.g.

```
<HTML>
      <HEAD>
                  <SCRIPT SRC="sample.js"></SCRIPT>
      </HEAD>
      <BODY>
                  <SCRIPT> ReplaceContent(); </SCRIPT>
            </BODY>
</HTML>

function ReplaceContent(){
document.write('<OBJECT CLASSID="CLSID:....">');
document.write('<PARAM NAME="URL" VALUE="http://mysite/workshop/');
document.write('samples/author/dhtml/media/drums.wav"/></OBJECT>'); }
```

ActiveX – Andy Dunn

Other affected applications

- MSInsight
  - Uses scriptlets
  - Fixes are in v7.5 release date 11/12
  - Fixes for older versions will be available at SP2 release
- SharePoint
  - Grid view is affected.
  - They are working on a fix
  - Will ship with SP1 of SharePoint
  - If gridview is not customized you will see updated version
  - Does not affect v1.0 sites

ActiveX – Andy Dunn

Finally

- Current information is that these bits will be in the final SP2 but will NOT be in the releases during November
- Anybody got a CMS site?
- Any questions contact andydu

Internet Connection Firewall+ - Michael Surkan

- ICF+ turns XP firewall on by default
  - Now supports "Protected" mode. "Shielded" is the same as today
  - All interfaces firewalled
  - Boot-time security
  - File and Print sharing support
  - Local and domain policy support
- Protected mode allows more granular in-bound support
- Support for applications
  - Software can register with ICF+ API

    Users/admins can specific application file names to add to allowed list

    Need to know details about how the app works with the network to configure ICF+ properly.
- ICF+ can be managed by group policy

  Can prevent local policy from working

  Can configure operational mode, open ports and allowed apps

  Can't override specific user settings (e.g. disallow opening particular ports)

Windows Management Instrumentation - Jack Creasey

Two changes impact the use of WMI after XP SP2

- ICF+ is enabled by default. This may potentially block connections to the client.
- Security (authentication and encryption) improved for WMI namespaces which will require authentication when connecting to client.

Windows Management Instrumentation - Jack Creasey

ICF+ Issues

- How are ICF Settings are implemented/disabled via GPO ?
  - XPSP2 will contain .adm for policy setup
- Can SMS still push down packages to clients?
  - Required ports must be opened
- Can MOM acquire data from the clients?
- Required ports must be opened
- What transport (TCP/UDP/RPC) does your server use to contact the client?
  - OTG need to catalog connection needs to client

Windows Management Instrumentation - Jack Creasey

WMI Namespace security and Encryption

- Not turned on by default
  - Requires addition of a registry entry in the WBEM key
  - HKEY_Local_Machine\Software\Microsoft\WBEM\CIMON
  - Add key RequiresEncryptedConnection
- PG want us to turn this on
  - Means we have to configure feature in client after XPSP2 deployment
  - Means updating scripts

Internet Explorer - Kurt Schmucker

Goals:

- Eliminate IE viruses by mitigating elevation of privilege threats
- *"Where ever I go with IE, I will be safe until I explicitly download more code."*

Internet Explorer - Kurt Schmucker

Some App Compat issues possible:

- Local Machine Zone protections
- Filetype security checks for file downloads
- No binary behaviors in Restricted Zones (impact for HTML mail)

Internet Explorer - Kurt Schmucker

Few App Compat issues possible:

- UI Spoofing prevention
- Bind to Object ActiveX security checks

Internet Explorer - Kurt Schmucker

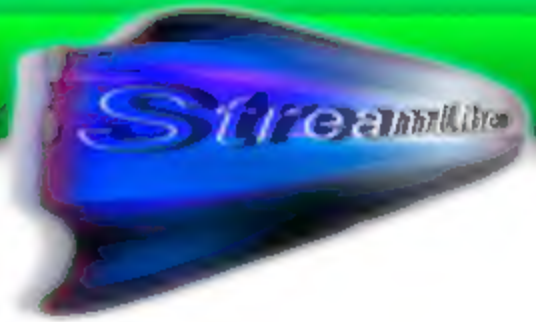
No App Compat issues expected:

- Download prompt UI
- Pop-up window manager
- Java Hardening
- Buffer overrun mitigations
- Restrict ChangeMyHomePage()

Appendix - Testing Instructions

- **MSJVM**: Contact olivierd if 3rd party app and in negotiation; Additional details/instructions to come.
- **ActiveX**: Follow instructions on http://msdn.microsoft.com/ieupdate/
- **Internet Connection Firewall+ Pilot**
  1. ICF+ on by default for machines in ICF+ Pilot Security Group
  2. Turn ICF+ off manually
  3. Test applications
  4. Turn on ICF+ manually
  5. Test applications again
  6. If blocked, open ports with ICF+, report back to *stephn* any port number (and port's purpose) that need opening.
  7. Test application again
  8. If still blocked, escalate to *stephn* immediately.
- **WMI**: Test app as usual
- **IE**: Test app as usual; Special focus on Local Machine Zone; Hooks for testers available for most changes

Microsoft



Live Streaming and Archiving by:

StreamLine

See the Guide at HTTP://MSRN

Can we cover your event?

StreamIt@microsoft.com